



IDS. #8
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Patent
270/219

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

O'CONNOR, Stephen D et al.

Serial No.: 10/046,071

Filed: January 11, 2002

For: MULTI-STREAM MICROFLUIDIC
MIXERS

)
) **Group Art Unit:** 1723

)
) **Examiner:** not yet assigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached form PTO-1449 and copies are enclosed for the convenience of the Examiner.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicant is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

LA-229307.1

CERTIFICATE OF MAILING
(37 C.F.R. §1.8a)

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

March 8, 2002
Date of Deposit

Miyabi Grace
Name of Person Mailing Paper

Miyabi Grace
Signature of Person Mailing Paper

INFORMATION DISCLOSURE STATEMENT FILING PROVISION:

This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d); or (2) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (3) before the mailing of a first Office action on the merits; or (4) before the mailing of a first Office action after filing a request for continued examination under § 1.114. Thus, no fee is required.

However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR § 1.17(p) to Lyon & Lyon's Deposit Account No. **12-2475**.

Respectfully submitted,
LYON & LYON LLP

Dated: March 8, 2002

By: 

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PATENT TRADEMARK OFFICE

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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

APPLICANT:

O'Connor, et al.

FILING DATE:

January 11, 2002

GROUP:

Not Yet Assigned

MAR 12 2002 (Use several sheets if necessary)



U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A1	6,296,020	10/02/01	McNeely, et al.	137	806	10/13/99
	A2	6,264,900	07/24/01	Schubert, et al.	422	224	10/24/96
	A3	6,074,725	06/13/00	Kennedy	428	188	12/10/97
	A4	6,030,581	02/29/00	Virtanen	422	68.1	04/21/98
	A5	6,007,775	12/28/99	Yager	422	57	09/26/97
	A6	6,004,515	12/21/99	Parce, et al.	422	100	10/27/98
	A7	5,922,591	07/13/99	Anderson, et al.	435	287.2	06/27/96
	A8	5,921,678	07/13/99	Desai, et al.	366	336	02/05/98
	A9	5,869,004	02/09/99	Parce, et al.	422	100	06/09/97
	A10	5,842,787	12/01/98	Kopf-Sill, et al.	366	340	10/09/97
	A11	5,771,810	06/30/98	Wolcott	101	483	06/25/97
	A12	5,690,763	11/25/97	Ashmead, et al.	156	60	06/06/95
	A13	5,646,039	07/08/97	Northrup, et al.	435	287.2	06/06/95
	A14	5,595,712	01/21/97	Harbster, et al.	422	129	07/25/94

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
	B1	WO 01/28670	04/26/01	WIPO	B01F	5/02		
	B2	WO 99/60397	11/25/99	WIPO	G01N	33/483		
	B3	WO 99/19717	04/22/99	WIPO	G01N	25/22		
	B4	WO 98/56505	12/17/98	WIPO	B01L	3/00		
	B5	WO 97/00125	01/03/97	WIPO	B01F	5/06		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT MAR 12 2002 (Use several sheets if necessary)	ATTY. DOCKET NO. 270/219	SERIAL NO.
	APPLICANT: O'Connor, et al.	
	FILING DATE: January 11, 2002	GROUP: Not Yet Assigned

		Bertsch, Arnaud, et al., "Static Micromixers Based On Large-Scale Industrial Mixer Geometry," Lab On A Chip, Vol. 1, pp.56-60, 2001 •
	C2	Voldman, Joel, et al., "An Integrated Liquid Mixer/Valve," Journal of Microelectromechanical Sys., Vol. 9, No. 3, Sept. 2000 •
	C3	Weigl, Bernhard H., et al., "Passive Microfluidics – Ultra-low-cost plastic disposable lab-on-a-chip," μ TAS 2000, Twente, the Netherlands, May 14-18, 2000.
	C4	Merkel, Tobias, et al., "A New Technology for Fluidic Microsystems Based on PCB Technology," Sensors and Actuators 77 A:Physical, pp.98-105, 1999 •
	C5	McNeely, Michael R., et al., "Hydrophobic Microfluidics," SPIE Microfluidic Devices & Systems II, Vol. 3877, Sept. 1999 •
	C6	Ehrfeld, Wolfgang et al., "Characterization of Mixing in Micromixers by a Test Reaction: Single Mixing Units and Mixer Arrays," Ind. Eng. Chem. Res. 1999, 38 1075-1082, Jan. 23, 1999 •
	C7	Böckenkamp, Dirk , et al., "Microfabricated Silicon Mixers for Submillisecond Quench-Flow Analysis," Anal. Chem. 70, pp. 232-236, 1998 •
	C8	Shoji, Shuichi, "Fluids for Sensor Systems," Topics in Current Chemistry, Vol. 194, 1998 •
	C9	Knight, James B., et al., "Hydrodynamic Focusing on a Silicon Chip: Mixing Nanoliters in Microseconds," Physical Review Letters, Vol. 80, No. 17, April 27, 1998 •
	C10	Desai, Amish et al., Microfluidic Sub-millisecond Mixers For The Study of Chemical Reaction Kinetics," Transducers 97 (1997 Int'l Conf. On Solid-State Sensors and Actuators), Vol. 1 pp. 167-70, June 16-19, 1997 •
	C11	Svasek, P., et al., "Dry Film Resist Based Fluid Handling Components for μ TAS" Institute für Allgemeine Elektrotechnik und Elektronik, Technische Universität Wien. (Undated) •

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